	Application No.	Applicant(s)
Notice of Allowability	09/830,972 <b>Examiner</b>	SCHWAB ET AL.  Art Unit
<b>,</b>	EXaminer	Art Olik
	Christopher J Nichols, Ph.D.	1647
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included  will be mailed in due course. <b>THIS</b>
1. This communication is responsive to 19 August 2004.		
2. The allowed claim(s) is/are <u>114-132</u> .		
3. The drawings filed on <u>02 May 2001</u> are accepted by the Ex	aminer.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No	·············
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER' as reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing header according to 37 CFR 1.121(c	gs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 3.19.03</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>	6. ☐ Interview Summary Paper No./Mail Date 3), 7. ☒ Examiner's Amendm	ė
of Biological Material	9.  Other	

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#### **DETAILED ACTION**

# Status of Application, Amendments, and/or Claims

- 1. The Response and Amendment filed 19 August 2004 has been received and entered in full.
- 2. The Preliminary Amendment filed 21 October 2002 has been received and entered in full.
- 3. The Declaration under 37 C.F.R. 1.132 filed on 19 August 2004 has been received and taken into consideration.

## **EXAMINER'S AMENDMENT**

- 4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 5. In the Claims:

Claims 1-113 (Cancelled)

Claim 114 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

the polypeptide of SEQ ID NO: 2,

amino acids 1-1163 of SEQ ID NO:2,

amino acids 975-1163 of SEQ ID NO:2, and

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amino acids 1-171 fused to amino acids 975-1163 of SEQ ID NO:2.

Claim 115 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

an amino sequence which has 90% or greater sequence identity with SEQ ID NO: 2, an amino acid sequence which has 90% or greater sequence identity with amino acids 1-1163 of SEQ ID NO:2, and

an amino acid sequence which has 90% or greater sequence identity with amino acids 1-171 fused to amino acids 975-1163 of SEQ ID NO:2, wherein said protein has Nogo activity.

Claim 116 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

an amino sequence which has 95% or greater sequence identity with SEQ ID NO: 2, an amino acid sequence which has 95% or greater sequence identity with amino acids 1-1163 of SEQ ID NO:2,

an amino acid sequence which has 95% or greater sequence identity with amino acids 975-1163 of SEQ ID NO:2, and

an amino acid sequence which has 95% or greater sequence identity with amino acids 1-171 fused to amino acids 975-1163 of SEQ ID NO:2, wherein said protein has Nogo activity.

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Claim 117 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

the polypeptide of SEQ ID NO: 29,

amino acids 1-1178 of SEQ ID NO:29,

amino acids 990-1178 of SEQ ID NO:29, and

amino acids 1-172 fused to amino acids 990-1178 of SEQ ID NO:29.

Claim 118 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

an amino acid sequence which has 90% or greater sequence identity with SEQ ID NO:29, an amino acid sequence which has 90% or greater sequence identity with amino acids 1-1178 of SEQ ID NO:29, and

an amino acid sequence which has 90% or greater sequence identity with amino acids 1-172 fused to amino acids 990-1178 of SEQ ID NO:29, wherein said protein has Nogo activity.

Claim 119 (New) An isolated protein that is free of all central nervous system myelin material with which it is natively associated comprising an amino acid sequence selected from the group consisting of

an amino acid sequence which has 95% or greater sequence identity with SEQ ID NO:29,

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an amino acid sequence which has 95% or greater sequence identity with amino acids 1-1178 of SEQ ID NO:29,

an amino acid sequence which has 95% or greater sequence identity with amino acids 990-1178 of SEQ ID NO:29, and

an amino acid sequence which has 95% or greater sequence identity with amino acids 1-172 fused to amino acids 990-1178 of SEQ ID NO:29, wherein said protein has Nogo activity.

Claim 120 (New) A isolated protein that is free of all central nervous system myelin material with which it is natively associated consisting of the polypeptide of SEQ ID NO: 32.

Claim 121 (New) A isolated protein that is free of all central nervous system myelin material with which it is natively associated consisting of an amino acid sequence which has 90% or greater sequence identity with SEQ ID NO: 32, wherein said protein has Nogo activity.

Claim 122 (New) A isolated protein that is free of all central nervous system myelin material with which it is natively associated consisting of an amino acid sequence which has 95% or greater sequence identity with SEQ ID NO: 32, wherein said protein has Nogo activity.

Claim 123 (New) The protein of any one of claims 114, 115, 116, 117, 118, 119, 120, 121, or 122, wherein said protein is mammalian.

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Claim 124 (New) The protein of any one of claims 114, 115, 116, 117, 118, 119, 120, 121, or 122, wherein said protein is human.

Claim 125 (New) The protein of any one of claims 114, 115, 116, 117, 118, 119, 120, 121, or 122, wherein said protein is recombinant.

Claim 126 (New) An isolated nucleic acid comprising a polynucleotide which encodes the protein of any one of claims 114, 115, 116, 117, 118, 119, 120, 121, or 122.

Claim 127 (New) An isolated nucleic acid comprising a polynucleotide which hybridizes to the nucleic acid of Claim 126 under high stringency conditions comprising 6X SSC, 50 mM Tris-HCl (pH 7.5), 1 mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 100  $\mu$ g/ml denatured salmon sperm DNA at 65°C.

Claim 128 (New) An expression vector comprising a nucleotide sequence which encodes the protein of any one of claims 114, 115, 116, 117, 118, 119, 120, 121, or 122.

Claim 129 (New) A recombinant host cell comprising the expression vector of claim 128.

Claim 130 (New) The recombinant host cell of claim 129 wherein in it is a prokaryotic cell.

Claim 131 (New) The recombinant host cell of claim 129 wherein in it is a eukaryotic cell.

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Claim 132 (New) A method of producing a recombinant protein comprising culturing a recombinant host cell transformed with the nucleic acid of claim 126 such that a protein encoded by said nucleic acid is expressed by said cell and recovering said expressed protein.

6. Authorization for this examiner's amendment was given in a telephone interview with Adriane Antler on 13 October 2004.

### Summary

- 7. Claims 114-132 are hereby allowed.
- 8. The Examiner acknowledges that acceptance of the above Examiner's Amendment does not mitigate in any way, shape, or form, Applicant's right to pursue additional subject matter in continuation, continuation-in-part, and/or divisional applications pursuant to 35 U.S.C. §120 and §121.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Christopher James Nichols**, **Ph.D.** whose telephone number is (571) 272-0889. The examiner can normally be reached on Monday through Friday, 8:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Brenda Brumback** can be reached on (571) 272-0961.

The fax number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CJN October 12, 2004 Elyabett C. Kenneus